

EP04-001C-USpatentin.txt  
SEQUENCE LISTING

&lt;110&gt; EXELIXIS PLANT SCIENCES, INC.

<120> GENES UPREGULATED IN A TOMATO PLANT HAVING AN INCREASED  
ANTHOCYANIN CONTENT PHENOTYPE

&lt;130&gt; EP04-001C-US

&lt;150&gt; US 60/465,605

&lt;151&gt; 2003-04-25

&lt;160&gt; 12

&lt;170&gt; PatentIn version 3.2

&lt;210&gt; 1

&lt;211&gt; 1675

&lt;212&gt; DNA

&lt;213&gt; Lycopersicon esculentum

&lt;400&gt; 1

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Gly Gly Pro Ile Ala Phe Asn Ile Ile Cys Gln Tyr Gly Val Asn Ser  
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Leu Thr Asn Ile Phe Val Gly His Leu Gly Asn Val Glu Leu Ser Ala  
 65 70 75 80

Ile Ser Ile Ala Gln Thr Val Ile Ser Thr Phe Ser Phe Gly Phe Met  
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Met Gly Met Gly Ser Ala Leu Glu Thr Leu Cys Gly Gln Ala Tyr Gly  
 100 105 110

Ala Gly Gln Val His Met Leu Gly Val Tyr Met Gln Arg Ser Ile Ile  
 115 120 125

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 130 135 140

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Ser Gly Arg Tyr Thr Met Leu Leu Ile Pro Gln Leu Phe Ser Leu Ala  
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Val Leu Ala Gly Ile Gly Phe Ala Ala Val Leu Val His Ala Leu Phe  
 195 200 205

Leu Trp Leu Phe Ile Tyr Thr Leu Glu Trp Gly Thr Asn Gly Ala Ala  
 210 215 220

Ile Ala Phe Asp Leu Thr Asn Trp Leu Thr Ala Met Ala Gln Leu Ala  
 225 230 235 240

Tyr Val Val Gly Trp Cys Lys Asp Gly Trp Lys Gly Leu Ser Trp Ser  
 245 250 255

Ala Phe Asn Glu Ile Trp Ala Phe Val Arg Leu Ser Ile Ala Ser Ala  
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Val Met Leu Cys Leu Glu Ile Trp Tyr Met Met Ser Ile Ile Leu Leu  
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Cys Met Asn Ile Asn Gly Trp Glu Ser Met Leu Phe Ile Gly Ile Asn  
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 325 330 335

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 385 390 395 400

Val Ile Ser Gly Val Ala Val Gly Gly Gly Trp Gln Ala Leu Val Ala  
 405 410 415

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Tyr Ile Asn Leu Gly Cys Tyr Tyr Val Phe Gly Leu Pro Leu Gly Tyr  
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Leu Leu Gly Tyr Val Ala Lys Leu Gly Thr Lys Gly Leu Trp Leu Gly  
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gctctgaagg agaaggcgat cgaagggtgaa gtaaagacta cagaaacaac acaagagaag 240  
actaatgaag ctaaaagtaa tccggagaaa gaatccaatg gtgcaacttt caaagaagag 300  
gaagttccag ttgaggttga acctaaaact ggagtctctt ttcctgtcaa acttgaagat 360  
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35 40 45

Ser Asn Pro Glu Lys Glu Ser Asn Gly Ala Thr Phe Lys Glu Glu Glu  
50 55 60

Val Pro Val Glu Val Glu Pro Lys Thr Gly Val Ser Phe Pro Val Lys  
65 70 75 80

Leu Glu Asp Gly Lys Gln Leu Lys Ala Val Gly Leu Arg Lys Lys Ser  
85 90 95

Met Leu Gly Met Gly Ile Lys Ile Tyr Gly Phe Gly Ile Tyr Ala Asp  
100 105 110

Asn Glu Lys Leu Lys Asp Leu Met Gln Ser Lys Ile Ala Lys Ala Pro  
115 120 125

Ala Lys Pro Thr Lys Glu Met Tyr Gln Met Val Ile Asp Ser Asp Leu  
130 135 140

Gly Met Met Met Arg Leu Val Ile Val Phe Ser Asn Leu Thr Met Asn  
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Met Val Arg Lys Asn Phe Asp Glu Gly Leu Gly Ala Ala Ile Lys Lys  
165 170 175

Leu Thr Gly Gly Lys Asn Glu Glu Leu Thr Lys Lys Ile Met Gly Glu  
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Ala Ser Asp Asp Ile Lys Leu Asn Ser Gly Ser Val Ile Glu Ile Ser  
195 200 205

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Arg Leu Pro Gly Tyr Val Leu Gln Thr Lys Val Lys Gly Glu Ile Val  
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<223> n is a, c, g, or t



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